Claims:

What is claimed is:

1. A method for anonymous trace-back for a food item label claim, the food item comprising

at least one food item component, the component associated with a plurality of entities, each

5   entity having a private ID, the label claim related to at least label claim event in the

processing history of the food item component, the method comprising:

recording event data in at least one database, the event data comprising

a unique private entity identification number for each entity,

a unique identification number for the food item component,

10   at least one label claim event, and

at least one shipped event and at least one received event, such that the

shipped event records the shipment of a component from a first entity, and the

received event records the receipt of the component at a second entity;

extracting at least one data view from the database, the data view comprising for each

15   label claim event:

date and time,

unique identification number for the component of the food item,

the transformational state of the food item,

the label claim event identification,

20   an event detail, and

a entity public ID, such that the entity public ID can be used to obtain the

entity private ID for the entity; and

querying the data mart to determine the public ID for an entity; and

decoding the public ID to a private ID for the entity.

2. The method of claim 1 wherein the data view is a data mart.

5   3. The method of claim 1 wherein

decoding the public ID to a private ID for the entity is performed with an encryption

keyword technique.

4. The method of claim 1 wherein

10   decoding the public ID to a private ID for the entity is performed with a reference

table.

5. A system for anonymous trace-back for a food item label claim, the system comprising:

a food item comprising at least one food item component;

15   a label claim for the food item, such that the label claim is related to at least label

claim event in the processing history of the food item component;

at least one entity associated with the food item component, such that the entity has a

private ID and at least one public ID;

at least one database, the database comprising

20   a unique private entity ID for each entity,

a unique identification number for the food item component,

at least one label claim event, and

at least one shipped event and at least one received event, such that the

shipped event records the shipment of a component from a first entity, and the

received event records the receipt of the component at a second entity;

at least one data view, the data view comprising for each label claim event:

5   date and time,

unique identification number for the component of the food item,

the transformational state of the food item,

the label claim event identification,

an event detail, and

10   a entity public ID, such that the entity public ID can be used to obtain the entity

private ID for the entity.

6. A method of auditing the accuracy of country of origin labeling of a food item

comprising at least one food item component, the component associated with a plurality

15   of entities, each entity located in a country and having a private ID, the method

comprising:

recording event data in at least one database, the event data comprising

a unique private entity identification number for each entity,

a unique identification number for the food item component,

20   a plurality of COOL events associated with the food item component, the

COOL events comprising BORN, RAISED/PRODUCED, and

PROCESED/HARVESTED or other phrases used to denote production

phases, and

at least one shipped event and at least one received event, such that the

shipped event records the shipment of a component from a first entity, and the

received event records the receipt of the component at a second entity;

extracting at least one COOL data view from the event database, the COOL data view

5   comprising for each COOL event, shipped event, and received event associated with a

component of the food item:

date and time,

unique identification number for the component of the food item,

the transformational state of the food item,

10   the event identification,

an event detail, and

a entity public ID, such that the entity public ID can be used to obtain the

entity private ID for the entity; and

querying the COOL data mart to audit the country of origin labeling of the food item,

15   the querying including converting the public ID to a private ID for at least one entity.

7. The method of claim 6 wherein

the food item is an edible food article comprising fruits or vegetables, grains or

oilseeds, livestock.

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8. The method of claim 6 wherein

the private identification number is a 16-character alphanumeric that begins with a

defined character.

9. The method of claim 6 wherein

the database is at least one transactional event database.

5   10. The method of claim 6 wherein

the database is at least one relational database.

11. The method of claim 6 wherein

the data view is at least one data mart.

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12. The method of claim 11 wherein

the data mart is a relational database.

13. The method of claim 6 wherein

15   converting the public ID to a private ID for the entity is performed with an encryption

keyword technique.

14. A method of determining country of origin labeling of a food item comprising at least

one food item component, the component associated with a plurality of entities, each

20   entity located in a country and having a private ID, the method comprising:

recording event data in at least one database, the event data comprising

a unique private entity identification number for each entity,

a unique identification number for the food item component,

a plurality of COOL events associated with the food item component, such

that the COOL events comprising BORN, RAISED/PRODUCED, and

PROCESED/HARVESTED, and

at least one shipped event and at least one received event, such that the

shipped event records the shipment of a component from a first entity, and the

received event records the receipt of the component at a second entity;

extracting at least one COOL data view from the event database, the COOL data view

comprising for each COOL event, shipped event, and received event associated with a

component of the food item:

date and time,

unique identification number for the component of the food item,

the transformational state of the food item,

the event identification,

an event detail, and

a entity public ID, such that the entity public ID can be used to obtain the

entity private ID for the entity; and

determining the countries to include on the COOL label.

15. A system for determining and auditing country of origin labeling of a food item, the

system comprising:

a food item comprising at least one food item component;

a country of origin label for the food item, the label alleging the countries of origin

for the food item component;

a plurality of entities associated with a food item component, such that each entity is

located in a country and each entity has a private ID and at least one public ID;

at least one event database, the event data comprising

a unique private entity identification number for each entity,

5   a unique identification number for the food item component,

a plurality of COOL events associated with the food item component, such

that the COOL events comprising BORN, RAISED/PRODUCED, and

PROCESED/HARVESTED, and

at least one shipped event and at least one received event, such that the

10   shipped event records the shipment of a component from a first entity, and the

received event records the receipt of the component at a second entity; and

at least one COOL data view comprising for each COOL event, shipped event, and

received event associated with a component of the food item:

date and time,

15   unique identification number for the component of the food item,

the transformational state of the food item,

the event identification,

an event detail, and

an entity public ID, such that the entity public ID can be used to obtain the

20   entity private ID for the entity.

16. The method of claim 15 wherein

the event database is at least one transactional event database.

17. The method of claim 15 wherein

the event database is at least one relational database.

5   18. The method of claim 15 wherein

the data view is at least one data mart.

19. The method of claim 18 wherein

the data mart is a relational database.

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20. The method of claim 15 further comprising

a reference table for converting the entity public ID to the entity private ID.

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